

Application No. 10/766,582
Response to Office Action

Customer No. 01933

Listing of Claims:

Claims 1-9 (Canceled).

10. (Currently Amended) A microchemical system ~~as claimed~~
~~in any one of claims 2 to 5, comprising:~~

an exciting light source that outputs exciting light;

a detecting light source that outputs detecting light;

5 an optical unit comprising an optical waveguide that guides
the exciting light and the detecting light together, and an
irradiation lens that irradiates the exciting light and the
detecting light guided by said optical waveguide path onto a
sample;

10 detecting means for detecting the detecting light passing
through a thermal lens generated by the sample on which the
exciting light has been irradiated; and

analysis means for analyzing the sample based on the
detected detecting light;

15 wherein [[:]] said optical unit further comprises a channel
disposed downstream of said irradiation lens in a direction of
travel of the exciting light and the detecting light and through
which a liquid containing the sample flows, and said detecting
means is disposed downstream of the channel in the direction of
20 travel of the exciting light and the detecting light.

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11. (Currently Amended) A microchemical system ~~as claimed~~
~~in any one of claims 2 to 5, further comprising:~~

an exciting light source that outputs exciting light;

a detecting light source that outputs detecting light;

5 an optical unit comprising an optical waveguide that guides
the exciting light and the detecting light together, and an
irradiation lens that irradiates the exciting light and the
detecting light guided by said optical waveguide path onto a
sample;

10 detecting means for detecting the detecting light passing
through a thermal lens generated by the sample on which the
exciting light has been irradiated;

analysis means for analyzing the sample based on the
detected detecting light; and

15 a channel-formed plate-shaped element disposed between the
optical unit and the detecting means and having a channel through
which a liquid containing the sample flows.

12. (Original) A microchemical system as claimed in
claim 11, further comprising a parallel moving mechanism that
moves said optical unit and said detecting means in parallel with
a surface of said channel-formed plate-shaped element while
5 maintaining relative positions of said optical unit and said
detecting means.

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13. (New) A microchemical system as claimed in claim 10, wherein said irradiation lens is fixed to an end of the optical wave guide path through which the exciting light and the detecting light are output.

14. (New) A microchemical system as claimed in claim 10, wherein the detecting light has a different frequency than the exciting light, and said irradiation lens has a chromatic aberration.

15. (New) A microchemical system as claimed in claim 10, wherein the detecting light has a different frequency than the exciting light, and said irradiation lens has a chromatic aberration.

16. (New) A microchemical system as claimed in claim 11, wherein said irradiation lens is fixed to an end of the optical wave guide path through which the exciting light and the detecting light are output.

17. (New) A microchemical system as claimed in claim 11, wherein the detecting light has a different frequency than the exciting light, and said irradiation lens has a chromatic aberration.

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18. (New) A microchemical system as claimed in claim 11, wherein the detecting light has a different frequency than the exciting light, and said irradiation lens has a chromatic aberration.